

Veterinary Report

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Innovative Computer Program Developed to Teach Veterinary Anesthesia

Animals and veterinary students alike will benefit from an innovative new computerized program being designed at the University of Illinois College of Veterinary Medicine. The program's purpose is to train students in proper management of problems encountered in anesthetized patients. Veterinary students will gain self-confidence and will perfect their skills in recognizing and dealing with real-life problems without having to use live animals.

The program is unique in that it utilizes data collected from live patients. This data is presented in the same form as it appears on anesthesia monitoring devices. Students must make decisions based upon a patient's electrocardiogram (ECG) and blood pressure recordings as well as other vital information in the same way they would during surgery. Current computerized anesthesia programs do not have this capability and instead must tell students what they should determine on their own by looking at the monitor.

The computer training program will first be used in the 1987-88 academic year. As students progress, additional simulations will be developed.

Dr. John Thurmon, professor and head of the college's anesthesia section, points out that the computerized program will help students become more proficient and comfortable with anesthesia procedures. These simulations will also allow students to experience a broader variety of clinical situations while at the same time decreasing the number of live subjects required for teaching.

Development of this program was made possible by an IBM Excel grant. In July/August of 1986, anesthesia personnel at the college received a \$46,000 equipment grant from the University of Illinois Excel program which enabled them to begin development of this project.

Dr. John Benson, professor of veterinary clinical medicine, was chosen as team leader and is working closely with Dr. Bill Olson, assistant professor of veterinary clinical medicine. Dr. Olson, who holds degrees in computer science as well as clinical pharmacology, is responsible for development of the software. Dr. Olson has been making good progress because his background helps him manipulate the computer programming so that it is medically (as well as theoretically) useful. Currently, he is putting the finishing touches on the first two autotutorial programs, making them as user-friendly as possible. Thus, students can easily concentrate on the learning process instead of having to spend long periods of time learning to work the computer. By fall, students should get their first opportunity to use the new computerized cases.

Together, the college's anesthesia staff have chosen real cases from which to obtain data for entry onto the computer. The team is currently formulating questions which students must answer as the case progresses on screen. At this stage, the program immediately points out wrong answers and explains why the response was wrong.

"Sometimes in clinical situations, students may be so afraid of making an incorrect response that they don't respond at all," Dr. Benson points out. "With the computer simulation, their response is not as critical and they can get instant feedback if their reasoning is incorrect. No live animal is adversely affected, the student gains confidence, and they learn from mistakes, ultimately improving their performance when they eventually do need to assist with anesthesia in a live patient."

The teaching station consists of a microcomputer with two monitors on which patient information is presented to the student. One screen is used to display the patient's case history complete with values for



Dr. Benson (standing) and Dr. Olson work with fourth year student Joan Burkhart on the new computer anesthesia program.

routing laboratory analyses (such as blood chemistries and cell counts) as well as a listing of the drugs used to induce and maintain anesthesia. On the second screen, the student sees the animal's ECG and blood pressure as they would appear on a clinical monitor. This second screen also presents the student with the patient's physical signs and asks multiple choice questions as to what the student plans to do to correct any problems that arise. The students respond to these questions by using a standard keyboard.

Because a computer simulation isn't critical as is a live animal undergoing surgery, the student can be permitted to spend more time thinking things through on his/her own.

In the future, computerized cases are expected to become even more sophisticated. Instead of telling the student that their action is incorrect, the patient's response to that action would be displayed. That way, as in real life, the wrong choice of medication or other anesthetic procedure would result in a change in the

patient, usually detrimental, and the student would have to recognize the problem and take further steps to correct it.

According to Dr. Benson, practice on simulated cases should bolster the students' confidence, improve their diagnostic and decision-making skills, sharpen their recognition of problem situations, and should help them place problems in the proper context so they'll know what actions are needed to alleviate a problem.

Instructors at the college will be able to evaluate students' performance on the simulated cases and determine whether their teaching has been effective or whether further instruction is required. It will also help identify the student who needs additional help.

Anesthesiologists at the college are confident that this new program will be an invaluable teaching tool and are also pleased that they are doing their part to modernize the teaching of veterinary medicine by decreasing the use of live animals.

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Dean's Corner

Dean Richard E. Dierks

Today's economy is exerting its impact on almost every aspect of private and public enterprises. Economic changes are both creating or forcing changes in how we address today's and tomorrow's needs, challenges and opportunities. Higher education and, in turn, your College of Veterinary Medicine are faced with a number of concerns and changes over the next several years. Let me share some information about these challenges and opportunities with you.

The University of Illinois has entered the 1987-88 fiscal year with a state-appropriated budget less than 1% above last year. This has resulted in a series of budget reductions imposed within the University plus curtailment and delay on other programs. Specifically, the College is faced with base budget reductions of \$264,000 in recurring state funds, elimination (hopefully temporarily) of a \$475,000 remodeling project in the Teaching Hospital laboratory animal area to meet new federal mandates for animal housing, and a zero salary increase for all employees. This has resulted in the loss of about \$1.5 million in the College's competitive position among other U.S. veterinary colleges. One of the first things that happens in that process is that our College becomes more vulnerable to faculty recruitment by other institutions. Unfortunately, that is beginning to happen.

It is clear that new state dollars will not be adequate to implement many of the new initiatives needed over the next two to three years, so a greater emphasis will be placed on grant and gift programs. As many of you are aware, Terry Rathgeber has been employed as the College's first full-time Development Director to work closely with the University of Illinois Foundation and coordinate gift-giving programs. At the same time, the faculty have continued to gain significant new research support from a number of federal and commercial sources. The research expenditures from nonstate-appropriated sources increased to \$5.46 million during the past year, placing our College among the top group of veterinary colleges nationally in those efforts.

One of the exciting new programs that must be developed with private funds is a Center for the Study of Human/Animal Interactions. The College is working with the Division of Rehabilitation Education Services, Institute for Child Behavior and Development, Police Training Academy, and faculty in psychology, sociology, anthropology, ethology, animal sciences, and elsewhere on campus to develop a center to study human/animal interactions in a variety of settings that improve our quality of life. The initial support for this exciting interdisciplinary program was provided through a gift from a private foundation. The establishment of such a program will not be possible without the receipt of private gift funds to provide existing and future tools for our faculty to develop the required interdisciplinary efforts. Other programs will demand similar disciplinary mixes.

A gift of \$5.5 million from the PEW Charitable Trusts is envisioned to help implement many of the required changes in the educational programs of all veterinary colleges on a national basis during the next several years. I have the privilege of serving on the Advisory Committee of the PEW Trusts Veterinary Education Program and look forward to the activities it will stimulate.

Let me turn to another issue moving to the forefront of our profession. The information explosion and significant changes in the livestock industries are also requiring change in how and what we teach in both the DVM curriculum and in professional continuing education programs. New veterinary information is now doubling every twenty months. The 9th Symposium on Veterinary Education held last summer identified the components that must work in concert to successfully implement changes in the educational process for the veterinary profession. Veterinary colleges, state and national licensing committees, and the AVMA Council on Education all must change together to provide both the diversification and specialization required of veterinarians in the future. The use of computers will also modify both what and how we teach. The College has established a faculty and student Task Force to address these broad issues in our College.

We have also established a small graduate training program entitled Integrated Food Animal Management Systems to begin to address one facet of the food animal industry. This program provides training for veterinarians as consultants to the swine industry with an emphasis on training in economics, epidemiology, commodity markets, nutrition, environmental and housing issues, management and communications skills, and computer usage. The College's extension faculty are also incorporating similar training into a number of their professional continuing education programs.

The challenges facing the College and the veterinary profession in the future will require new and innovative approaches in order to most effectively meet our role in training both existing and future veterinarians. The Urbana-Champaign campus, with its many strengths, is an excellent location for many of these developments to be tried and expanded.

Dates to Remember

January 18, 1988 - University of Illinois Alumni Reception at the Eastern States Veterinary Conference. 6:00 to 8:00 p.m. Chicago Room of the Marriott Orlando World Center Hotel. Contact Terry Rathgeber, 217/333-5545, or Dr. Erwin Small, 217/333-5310.

January 22-23, 1988 - Equine Anesthesia/Surgery of the Head and Neck. Urbana, IL. Anesthesia procedures for the practitioner utilizing short, moderate, and long-term techniques useful in field situations and the whys, hows, and whens to use surgical procedures of the head and neck will be discussed in lecture format the first day. The second day is a limited enrollment wet lab featuring the techniques discussed the first day. Contact Dr. R.D. Scoggins, 217/333-2907.

March 19-20, 1988 - Equine Conference. Urbana, IL. For horse owners. Contact Dr. R.D. Scoggins, 217/333-2907.

April 16, 1988 - Veterinary Medicine Open House. 9:00 a.m. to 4:00 p.m. Free admission. Exhibits and demonstrations are scheduled for both the Veterinary Medicine Teaching Hospital and the Veterinary Medicine Basic Sciences Building. Contact Tania Banak, 217/333-2907, for more information.

May 1988 - Milking Machine/Mastitis Workshop. Urbana, IL. An intensive, practical three-day course featuring milking machine and milking procedures evaluation, milk culture and herd records interpretation, and formulation of a control program for individual herds. Includes farm evaluation visits. For the veterinarian who is striving to reduce somatic cell count (SCC) of the better dairy herds in order to increase milk quality premium payments. Limited to six. Contact Dr. R.D. McQueen, 217/333-2907.

Summer 1988 - Practitioner Updates. Various locations throughout Illinois. All species. Half-day sessions designed to bring practitioners up to date on the latest health concerns in various species as determined by the college's extension veterinarians through their contact with animal owners and veterinarians in the Midwest. Watch your mail for details.

October 6-7, 1988 - Annual Fall Conference for Veterinarians. Urbana, IL. Contact Dr. LeRoy Biehl, 217/333-2907.

Veterinary Computer Symposium Features Innovative Ideas

More than 150 veterinary practitioners, educators, administrators and students from across the U.S. attended the Fifth Symposium on Computer Applications in Veterinary Medicine held at the University of Illinois campus on Sept. 26-29, 1987. Attendees had a full schedule to choose from, with sessions covering everything from the use of computers in veterinary teaching to tips on improved practice management via computerization. Commercial computer equipment exhibitors and demonstrations of systems discussed during lecture presentations added practical reinforcement to the issues discussed.

According to Dr. Ron Smith, professor of veterinary pathobiology at the University of Illinois College of Veterinary Medicine and the symposium's program chairman and proceedings editor, the program fulfills the American Veterinary Computer Society's purpose, which is to exchange and disseminate information on the use of computers in veterinary medicine. The first symposium was held at Mississippi State University in 1982. Since that time there have been three additional symposiums at Mississippi State University, Texas A&M University, and the Ohio State University.

This year's program at Illinois featured a full four-day schedule of papers, demonstrations, workshops and interest group meetings. Presentations encompassed the areas of administration, computer-aided diagnosis, education, hardware/software innovations, herd health, practice management, and research. General lecture sessions dealt with overviews on the use of computers in mixed, dairy or emergency practice as well as with specific applications of data management programs in herd health management, diagnosis, and drug usage. Workshops on dairy ration analysis, the use of computer spreadsheets in the veterinary practice, development of Problem Knowledge Couplers, and an introduction to the Pig Champ swine health management program attracted many of the registrants.

Speakers ranging from university faculty to practitioners who had computerized their practice openly discussed the pros and the cons of their subject area, giving attendees a broader understanding of what to expect when implementing computers in certain areas.

As Dr. G.K. Vajda, chairman of the American Animal Hospital Association computer committee from Phoenix, Arizona, said, "No other profession could better utilize computers than our own veterinary profession." In his own practice, through the use of computers, he has reduced the amount of time he has to spend in his practice, while at the same time he has gained a fuller understanding of the total operation of the business and of his staff, and is making more money. Much of this is attributable to using his computer as an automatic "library" . . . all information is entered into his data base and every item dispensed or used must be accounted for.

Ultimately, he keeps better track of his inventory and client information and puts that knowledge to use. The result is more efficient service.

Approaching practice computerization from a more conservative angle was Dr. Joseph F. Connor, an alum and featured speaker on the program who has a mixed animal practice in Carthage. Dr. Connor did not set out to completely computerize his practice. Instead, he implemented computer services where they seemed helpful. He found himself finding many uses for the computer, including invoicing, client records, inventory records, service reminders for both his large and small animal clients, and practice-building welcome and sympathy letters. He noted that the data base stored on the computer improved his services to clients because he could retrieve past data and evaluate the patient's total picture, providing useful and complete information to the owner in a timely manner.

The use of computers in veterinary teaching is becoming more common as well. Students are not only exposed to computerized herd health management programs while in school, but are actually gaining practical skills and medical knowledge via specially-designed computer programs. For example, at Illinois a new program has recently been instituted where students practice anesthesia skills on computerized patients. This creates a smooth transition from passive acceptance of lectured instruction to active participation in clinical procedures because the students gain confidence, consequently experiencing less anxiety at the transition.

Following the symposium, attendees had an opportunity to tour various attractions on the University of Illinois campus, including a general campus tour, a visit to the Computer-Based Education Research Laboratory (CERL), the National Center for Supercomputing Applications (NCSA), and the College of Veterinary Medicine.

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Representing 94 years of Service

Three Veterinary Faculty Retire

The retirement of three veterinary faculty at Illinois represents 94 years of service. Retiring this fall were Prof. Virginia R. Ivens, associate professor of veterinary pathobiology, with 37 years of service; Dr. Frank E. Romack, associate professor of veterinary biosciences, with 22 years of service; and Dr. Alfred G. Schiller, professor of veterinary clinical medicine, with 35 years of service.

All three were honored at the college's first Annual Recognition Reception in Honor of Retiring Faculty July 31. Drs. Borje Gustafsson, Ken Todd and William Wagner, representing the college's three departments, and Dean R. E. Dierks made presentations in honor of each retiree.

Prof. Ivens has been at the University of Illinois since 1950, conducting research and teaching parasitology courses at the College of Veterinary Medicine. During her tenure at the college, she co-authored numerous publications on various parasites, including four monographs on coccidia of mammals. She also was the senior author on a book entitled *Principal Parasites of Domestic Animals in the United States*. In addition, she authored seven PLATO computerized learning lessons on identification of arthropods important to veterinary medicine in the U.S. and translated numerous parasitological articles from Russian. As a result of her numerous contributions to parasitology, Prof. Ivens was listed in *Who's Who of American Women*, *American Men of Science*, *Contemporary Authors*, and the *Dictionary of International Biography*. She was active in a variety of professional societies, including the American Society of Parasitologists, the Society of Protozoologists, and the Entomological Society of America. She also served on the University of Illinois at Urbana-Champaign Senate and is presently on the Board of Directors of the UI Employees Credit Union.

After retirement, Prof. Ivens plans to remain in the Champaign-Urbana area where she can enjoy the many cultural, intellectual and sports-related activities offered by the University. Travel and volunteer work are also in her plans.

Dr. Frank Romack came to the University of Illinois in 1965 after receiving BS, MS and PhD degrees from the University of Missouri. He had already spent 10 years teaching high school vocational agriculture in Missouri, and then taught anatomy and histology at the University of Missouri College of Veterinary Medicine at Columbia. At Illinois, his research included work on endocrine metabolism, atherosclerosis in swine and food animal anesthesia. He also taught veterinary students anatomy and histology as well as advised numerous graduate students. He is a member of numerous professional organizations, including the American Association of Anatomists, the World Association of Veterinary Anatomists, and the Society for the Study of Reproduction.

Retirement plans include travel to California, Florida, and Texas to visit relatives.

Dr. Alfred Schiller has served the College of Veterinary Medicine since 1952, beginning as a small animal clinician. From 1954-1974, he was head of the college's Small Animal Clinic. In addition, he served as acting head of the Veterinary Clinical Medicine Department, acting associate dean for academic affairs, and acting head of Laboratory Animal Care at the college.

In 1965, he was one of 35 veterinary surgeons in the U.S. and Canada recognized as a Charter Member of the American College of Veterinary Surgeons. He became president of this organization in 1972. Since 1975, he has served this group as executive secretary.

He was active in numerous other veterinary organizations, including the American Veterinary Medical Association, the Illinois State Veterinary Medical Association, the Eastern Illinois Veterinary Medical Association, and the American Animal Hospital Association. In 1971, the UI College of Veterinary Medicine Alumni Association honored Dr. Schiller with their Service Award, and in 1972, the ISVMA recognized him as their Veterinarian of the Year. In 1978, he received the Distinguished Alumni Award from his alma mater, the Michigan State University College of Veterinary Surgeons. His lengthy and productive career has included teaching numerous veterinary and graduate students, as well as serving on local, college and national committees and offices.

Dr. Schiller plans to continue as executive secretary of the American College of Veterinary Surgeons and plans to travel during his retirement.

All three retirees will bring to a close another chapter in the history of the College of Veterinary Medicine. Yet their contributions to the development of the college live on.



From left, Dr. Romack, Professor Ivens and Dr. Schiller at retirement ceremonies.

New Faces

Dr. Paul S. Cooke is an assistant professor of morphology in the Department of Veterinary Biosciences. He comes to the college from a position as a research anatomist at the University of California in San Francisco. He had assumed that position in February of this year after completing a three-year stint as an NIH Postdoctoral Fellow in the same department. A native of Illinois, Dr. Cooke graduated as valedictorian of his graduating class at Westminster College in Fulton, Missouri, in 1978. He received his doctorate in physiology at the University of California, Berkeley, in 1983 and received the Outstanding Paper Award from the American Society of Zoologists at its meeting in 1982. Dr. Cooke was awarded a National Research Service Award by NIH for postdoctoral studies at the University of California, San Francisco. His area of research involves mechanisms of fetal and neonatal development. While completing his PhD, Dr. Cooke developed several new methods for studying the endocrine control of fetal growth. A new model system that he has established may provide new avenues for analysis of epithelial branching morphogenesis and glandular growth and androgenic effect on growth.

Dr. Matthew Alan Wallig is an assistant professor of pathology in the Department of Veterinary Pathobiology. He comes to the University of Illinois after completing a PhD in veterinary pathology this June at Colorado State University. Dr. Wallig received his DVM degree from the University of Minnesota in 1981. Earlier, he had received a BA from the University of Wyoming in 1976. After receiving his DVM degree, he was in small animal practice in Massachusetts for one year. Dr. Wallig began residency training at Colorado State in veterinary morphologic pathology in 1982. From 1985 to 1987, he completed his PhD research and training in toxicologic pathology. During that period of time, he was involved in the instruction of professional students in diagnostic toxicology. His research interests are in the area of toxicologic pathology, investigating structure-activity relationships among naturally occurring toxicants.



Rebecca Strater, a Veterinary Technician II at the college, received the Robert and Lucy Graham Award for outstanding contributions to the college during the college's 11th Annual Nonacademic Recognition Program on September 2. The award is presented annually to a nonacademic employee at the college who has provided outstanding and dedicated service. Strater works in the college's surgery and sterile supply area.

Dr. William Wagner Elected to AVMA Council on Education

Dr. William C. Wagner, professor and head of veterinary biosciences, was recently elected to a six-year term on the American Veterinary Medical Association's Council on Education. The 12-member council consists of veterinarians from university as well as private practice backgrounds who represent various aspects of the profession. These members meet twice annually to discuss curriculum changes, veterinary school accreditations, and other matters related to veterinary medical education.

Dr. Wagner was installed on the council during the AVMA's annual meeting. He is representative of "basic or preclinical science" interests on the council. Other areas represented include veterinary medical research; private and clinical large, small and mixed animal practice; and preventive medicine.

The council's purpose is to study and promote the improvement of veterinary medical education in all its facets. In addition to making recommendations and evaluations during their biannual meetings, council members may be called on to form subcommittees which travel to veterinary schools and evaluate facilities and programs for accreditation according to established standards.

Visiting Practitioner Program Available in Clinics

The Department of Veterinary Clinical Sciences at the University of Illinois College of Veterinary Medicine is offering a unique opportunity for individual practitioners to upgrade their skills by participation in a Visiting Practitioner Program. This program was developed in response to requests from a number of practitioners for individualized attention to continuing education needs that were not available through traditional continuing education courses.

Not all sections of the clinic are participating at this time so the specific needs, requests, and length of any program must be considered on an individual basis. The fees for a program also will vary depending on the nature and design of the program, e.g., equipment needs, animals, etc. However, a minimum fee of \$100 will be assessed and payment is due at time of registration. A certificate will be issued on completion of the program for the appropriate continuing education credit.

Applicants should provide resumes and a realistic statement of goals. A schedule of activities might include attendance at clinic rounds, lectures, assignment to specific faculty members during clinic outpatient schedule, and discussion periods. Time frames can be extremely variable.

All interested parties should submit their requests to Dr. Erwin Small, Interim Chair, Department of Veterinary Clinical Medicine, 1008 W. Hazelwood, Urbana, IL 61801.

New UI Computer Program Assists Dairy Ration Analysis

Impressive milk yields in dairy cattle depend as much on good nutrition as on a cow's genetics. Although most dairy farmers are aware that nutrition is important, they may not always be confident that the ration they're feeding is optimal for their herd in terms of milk production, reproduction and health.

To help dairy farmers provide their cattle with the most complete, balanced rations possible, Dr. R.D. McQueen, professor and dairy extension veterinarian at the University of Illinois College of Veterinary Medicine, developed a computer program that helps veterinarians and dairy producers evaluate the rations that are being fed and subsequently to make adjustments to correct any deficiencies, imbalances, or excesses that are revealed by analysis.

Unlike commercial least-cost ration formulation programs costing from \$400 to \$2,000, the "Dairy Ration Analyzer" program doesn't require a sophisticated knowledge of dairy nutrition in order to obtain results. Instead, the user can simply follow the menu-driven program, entering values from each farm, and determine whether the rations currently fed are nutritionally adequate. If not, a few simple steps enable the user to determine what supplement(s) or feed(s) must be added or changed to balance the rations.

One dairy producer who recently obtained the latest version of the computer program was pleased at the ease with which he could use the program and how quickly he was able to obtain results. "I got more results in two hours than I've ever gotten with a computer ration before, and I came out smiling," he commented.

Dr. McQueen began with a basic dairy ration evaluation program provided by Mike Hutjens, extension dairy specialist with the University of Illinois College of Agriculture. With the assistance of Dr. Hutjens and a then fourth year veterinary student with computer programming expertise (Dr. Vicki Vanek), Dr. McQueen revised and expanded the program extensively to make it user-friendly, to incorporate help screens, and to expand the analysis.

To date, 15 veterinary schools around the country, more than 200 veterinarians, and 30 Illinois county extension advisors have purchased the program. It is also in use at the University of Illinois in teaching the course "Nutritional Aspects of Large Animal Diseases" to third year veterinary students. Special training courses for dairy veterinarians and for producers have been held, and additional training programs are planned. A limited number of locally owned feed companies have also purchased the program.

The program analyzes rations of 25 different nutrients. It calculates feed costs and forage/concentrate ratio and highlights several output values of health significance. The program runs on IBM-compatible personal computers typically used in veterinary practices and some dairy farms.

The program is useful to the individual dairy farmer who wants to maximize his production. An analysis is

conducted by his veterinarian or, in some instances, by the dairyman using his own or his veterinarian's computer. In some counties, producers use the program in their extension advisor's office.

Availability of the program has encouraged veterinarians to look at the nutritional aspects of various health problems. Often, feeding and management changes have led to substantial reductions in certain health problems. For example, herds that are consistently bothered by acidosis/off-feed problems may be predisposed to displaced abomasum problems. Milk fever, downer cow problems, low production, anestrus and low conception, ketosis, and mastitis problems may also be related to nutrient deficiencies/excesses/imbalances.

The program is written so that it can be used with data from each individual's farm. Typing skills are not necessary. The program poses questions to which the user responds by hitting numeric keys. Only limited use of the keyboard is necessary, as in entering feed names and personal/farm identification facts. Data on about 80 common feedstuffs and commercial feeds are pre-entered in the feed library.

An inexperienced, nontypist user can thus obtain results in 10 to 15 minutes after 10 to 20 hours of training. Individuals with personal computer experience and above average knowledge of dairy nutrition can obtain results in as little as five minutes.

"Most Midwestern dairy farms have a fixed forage base," says Dr. McQueen. "They raise their own hay or silage and either raise their own grain or have ready access to it. They typically buy soybean meal or commercial protein-concentrate and may purchase grain by-products based on break-even costs. Their primary question is how can they balance the feed materials that are already present in the farm." Determining which feedstuffs cost less on a month-to-month basis is not as important as in large dairy operations in other parts of the country which purchase most or all of the feeds fed.

"The least-cost computer ration formulations are expensive and complicated," Dr. McQueen notes. "We've developed an entry-level program that evaluates existing rations and permits rapid adjustments to correct deficiencies or imbalances that are revealed by the analysis without requiring the program operator to possess graduate level nutritional knowledge. Those who are interested can learn more about nutrition by using the information screens and interpretive comments in the 90-page program manual. Basically, we've developed the program as an educational resource for those who need it and as a tool for straight-forward ration analysis for the experienced user."

The Dairy Ration Analyzer computer program is available at a cost of \$75 by contacting Dr. McQueen at the University of Illinois College of Veterinary Medicine at Urbana, 217/333-2907.

Illinois Researchers Seek Alternatives to Eye Irritation Tests

With a long-term goal of eliminating some animal eye tests when evaluating new industrial or consumer products, researchers at the University of Illinois College of Veterinary Medicine are investigating alternative testing methods for these new products which don't require the use of live animals. So far, results have been encouraging.

Dr. John Shadduck, primary investigator on the research project and head of veterinary pathobiology, cautions that much work remains to be done before the new testing methods will replace animal eye tests. Nevertheless, the researchers note that even partial use of the new testing methods will reduce the number of live animal tests needed.

The non-animal tests under study would be used to initially screen new products. The most irritating substances can be eliminated early, without having to use live animals, thereby reducing the discomfort that must be endured by test animals. It may also be possible to obtain more consistent and reproducible test results by using non-animal rather than animal tests.

According to Dr. Shadduck, their research involves individual cells grown in a laboratory tissue culture. The material that is being tested is added to the culture and the amount of damage is determined after different time intervals.

"To determine the amount of damage caused to the cells, we initially place radioactive markers into the test cells," Dr. Shadduck explains. "The radioactivity binds to the cell contents and is not released unless the cell is damaged. After the test material is added to the cells, we centrifuge the cell culture and remove the cell-free fluid containing the released radioactivity. The more radioactivity we subsequently detect, the more damage the test material has caused."

The research has shown that cell cultures can be used to determine whether some substances cause eye irritation. Now that information must be refined so that the degree of irritation can be determined and to provide a standard for relating the cell culture test results to the level of damage or irritation that would be caused to the human eye if exposed to the substance. Research is continuing in order to provide this information. The Soap and Detergent Association and the Procter and Gamble Company are sponsoring the research.

Additional Fellowships Funded in Biotech Training Program

Molecular biologists with an understanding and interest in the broader implications of biotechnology on agriculture and veterinary medicine are being trained via an innovative interdisciplinary biotechnology fellowship program at the University of Illinois at Urbana. The program, funded by the United States Department of Agriculture (USDA), is directed by the Veterinary Pathobiology Department at the University of Illinois College of Veterinary Medicine in cooperation with the Departments of Animal Sciences, Biochemistry, and Microbiology on campus.

The program was first initiated in 1985. The University of Illinois was one of the pioneers in the program at that time. The program proved to be very successful with many universities being able to recruit and train high quality students, thereby encouraging the USDA to renew the training program. The objective is to bring more molecular biologists into agricultural and veterinary medicinal research.

Three new fellowships, each a three-year program featuring a \$15,000 annual stipend and a tuition and fee waiver, were established this year. Participants selected to the program will receive interdisciplinary training in molecular biology of infectious diseases and the physiology of growth/reproduction.

"The University of Illinois has a history of strong collaborative research," notes Dr. Wayne Tompkins, professor of veterinary pathobiology. As a result, the fellowship program is workable, turning out marketable individuals who possess an awareness of practical problems in agriculture and the tools of modern biotechnology necessary to deal with these problems.

The first year of the program provides a solid core in molecular biology, featuring access to faculty and laboratories in the Departments of Animal Sciences, Biochemistry, Microbiology and Veterinary Pathobiology. After the students have been exposed to various courses and laboratories, they determine which area is of most interest to them and are assigned to a major department. Throughout the program, however, they continue to have access to other departments in the program.



Undesignated gifts from alumni and friends to the Veterinary Achievement Fund at the University of Illinois College of Veterinary Medicine in the last couple of years have been used to create an endowment account to provide scholarships for students in the professional curriculum. The first three recipients were chosen this fall for the \$1,000 annual stipends from the Alumni Scholarship Fund. Dean Richard Dierks presents the awards to (from the right): Susan Medansky, Morton Grove; Gina Grman, Savoy; and Dana Buosco, Chicago.

Four Honored During Annual Meeting

Four veterinarians received awards during the University of Illinois College of Veterinary Medicine Alumni Association's annual meeting on October 1, held during the college's annual Fall Conference for Veterinarians.

Dr. Ronald Kolar, Hillside, received the Illinois Veterinary Medicine Alumni Association's Merit Award for extraordinary interest and loyalty to the College of Veterinary Medicine and for having attained outstanding success and distinction in the profession of veterinary medicine. Dr. Joseph F. Pula, Peoria, received the Association's Service Award for meritorious service to the profession of veterinary medicine. The Special Service Award, given on an intermittent basis to an individual deserving of special recognition to the college and to the veterinary profession, went to Harry E. Rhoades, Urbana, and Dr. William H. Wright, Springfield, received a Loyalty Award from the University of Illinois Alumni Association for maintaining extraordinary interest in and loyalty to the University of Illinois.

Dr. Ronald Kolar spent several years as a high school chemistry teacher before attending the University of Illinois College of Veterinary Medicine and earning his DVM degree in 1960. He currently has a private practice in Hillside. Throughout his career, Dr. Kolar has been an active member of the American Veterinary Medical Association (serving as a member of their staff involved with scientific activities), the Illinois State Veterinary Medical Association (serving on their executive board and scientific program committees), the Chicago Veterinary Medical Association (president in 1977), and the Illinois Academy of Veterinary Medicine (president in 1981 and executive director from 1983-85). He has been especially interested in veterinary medical continuing education, helping plan symposiums on the subject, and developing the auto-tutorial section for AVMA Conventions as well as being instrumental in getting the UI College of Veterinary Medicine to develop a Visiting Practitioner Program. He has also written a variety of publications on the subject. Dr. Kolar is listed in Who's Who in the Midwest, 1974, '76, '77, '83, '84, and '87. He is active in community issues as well, including the West Suburban Council Boy Scouts of America and the Grace Lutheran Church in Western Springs.

Dr. Joseph F. Pula is a 1944 graduate of the Michigan State College of Veterinary Medicine. He has practiced in Peoria since 1945. He is an active member of the American Veterinary Medical Association, the Illinois State Veterinary Medical Association (president in 1985, 6 years on Board of Directors, chairman of membership committee for 2 years), the Chicago Veterinary Medical Association, and the Mississippi Valley Veterinary Medical Association (served on various committees including secretary, treasurer and past president; currently serving as chairman). He has been a strong supporter of human causes and public education over the years, serving on organizations such as the humane society and livestock producer associations. He has organized numerous educational booths representing veterinary medicine at trade shows and at similar public displays.

Emeritus Professor Harry E. Rhoades, bacteriologist at the University of Illinois College of Veterinary Medicine from 1945 until his retirement in 1981, earned his AB degree from the University of Illinois in 1938 and his MS degree from Cornell University, Ithaca, NY in 1940. While at Illinois, he taught veterinary bacteriology and mycology to students at the veterinary college and advised numerous graduate students. He has more than 50 publications to his credit, including computerized PLATO teaching programs which permitted students to study bacteriology and mycology at their own pace. In addition to his teaching responsibilities, Prof. Rhoades actively participated in research projects at the college and was responsible for the isolation and identification of pathogenic bacteria and fungi from animals or specimens submitted to the UI College of Veterinary Medicine for diagnosis.

Prof. Rhoades also helped many food animal practitioners set up their practice's laboratories, providing



From left to right: Dr. Ron Kolar, Hillside, received the Illinois Veterinary Medicine Alumni Association's Merit Award; Dr. Joe Pula, Peoria, the Association's Service Award; Harry Rhoades, Urbana, the Special Service Award; and Dr. William Wright, Springfield, a University of Illinois Alumni Association Loyalty Award for extraordinary interest in and loyalty to the University of Illinois. All four awards were presented in Urbana during the college's Annual Fall Conference for Veterinarians.

willing and knowledgeable support wherever possible.

Dr. William H. Wright of Rochester is a 1966 graduate of the UI College of Veterinary Medicine. He practiced in Oswego after graduation, then joined the Capitol Illini Veterinary Hospital in Springfield in 1969. He currently serves as president of that partnership, which consists entirely of Illinois alumni. He has been involved in legislative activities on behalf of the College of Veterinary Medicine and the University of Illinois and has also served as one of the Illinois State Veterinary Medical Association's representatives in the same manner. Dr. Wright is an active member of the

Central Illinois Veterinary Medical Association (past president), the Greater Springfield Veterinary Medical Association (past vice president), the Illinois State Veterinary Medical Association (chairman of a variety of committees), and served on the University of Illinois Alumni Board of Directors representing the College of Veterinary Medicine from 1981-87. In addition, he is an adjunct clinical professor in microbiology and immunology to the Southern Illinois University School of Medicine, and also serves on their laboratory animal care committee. His special interest is in small animal orthopedics.



Dr. LeRoy Biehl, coordinator of Continuing Education/Public Service, addresses registrants at the University of Illinois Annual Fall Conference for Veterinarians on October 1-2. As can be seen in the photo, the traditional tent was abandoned this year in favor of the college's atrium area. Over 200 veterinarians registered for this year's event, which featured sessions on everything from ruminant anesthesia to small animal behavior to laboratory animal care. Illinois offers the widest topic selection of any university-run annual conference in the nation.

Thanks For Your Support

Alumni and friends of the College have been generous in their support of the College during 1987. Many responded with gifts either to the letter in September or to the telemarketing campaign conducted on behalf of the College by the University of Illinois Foundation in November. Those funds are supporting scholarships for professional students, or if the donor chose to earmark them, they are supporting

specific areas like the toxicology hotline, the IFAMS program, the library, or research areas. The year 1987 has also been marked by record participation in the Companion Animal Memorial Fund.

If you have not made a gift in 1987 and would like to join the many alumni and friends supporting the University of Illinois College of Veterinary Medicine, clip out the form below and return it to the College. Thanks to all of you.



In support of the University of Illinois College of Veterinary Medicine Achievement Fund

This gift is from _____
(Print name as you prefer it to appear in our records.)

☐ My company will match this gift. Enclosed is their Matching Gift Form.

Please send information on

- ☐ The Presidents Council
☐ Giving through wills, trusts and bequests

Please make your check payable to
University of Illinois Foundation Veterinary Achievement Fund

☐ Enclosed is my gift of \$ _____

Please direct it to the area of greatest need.

A gift at one of the following levels qualifies you for a membership in the Deans Club. Enroll me at:

- ☐ \$100.00 Regular Member
☐ \$250.00 Sustaining Member
☐ \$500.00 Honor Member
☐ \$750.00 Robert Graham Fellow

Gifts of \$1,000.00 or more each year for ten years fulfills the requisites of the Presidents Council, the highest honor organization of the University of Illinois Foundation. Your gift is tax deductible. THANK YOU.

JOIN YOUR UI ALUMNI GROUP

Reunion, Gift Announcement And Loyalty Award Highlight Cruise

Nearly 150 alumni, friends and faculty of the University of Illinois College of Veterinary Medicine gathered at the AVMA convention for an evening cruise on Lake Michigan on July 21. Eleven members of the Class of 1952, including new AVMA president Richard Fink and his family held a class reunion on the cruise along with 10 spouses and the widows of two classmates.

Two highlights of the evening were the announcement by Dean Richard E. Dierks of a planned gift of \$100,000 by Dr. Erwin Small to the College of Veterinary Medicine and the presentation of a Loyalty Award by Pat Hayes of the UI Alumni Association to Dr. Loyd Boley. Both gentlemen's responses to those gathered were as eloquent as we have come to expect from them over the years.

Dr. Small's gift will be established as a part of his estate and will be used for two purposes. One-half of the endowment income will support student scholarships and the other half will be used to develop a faculty recognition awards program. Dr. Small has been an employee, a student, or a faculty member at Illinois since the veterinary college's creation in 1948. He said that evening that his decision to make the gift was his way of repaying Illinois and the University of Illinois for giving him the degrees and career he has enjoyed so much.

Dr. Small is the third faculty member to establish an endowment fund or estate gift at the University of Illinois. Previous gifts have been established by Dr. and Mrs. Norman Levine and Dr. and Mrs. Diego Segre.

The Loyalty Award given to Dr. Boley by the University of Illinois Alumni Association recognizes his long and dedicated service to the University of Illinois. Dr. Boley received his DVM degree from Kansas State but later received a graduate degree from Illinois. He joined the faculty in veterinary medicine at Illinois before the College was a reality, working in extension in his earliest years at Illinois. He was a clinician and later head of the department of clinical medicine. He retired as associate dean for academic affairs. As an emeritus professor, he has continued to serve Illinois as he chaired the College's annual funds drives in 1985 and 1986.



Dr. Loyd Boley receives a University of Illinois Loyalty Award from Pat Hayes of the University of Illinois Alumni Association during the Chicago AVMA Cruise. At left, Dean Dierks congratulates Dr. Small after the announcement of the gift trust he has established for the college.

Illini Dominate AVMA Awards

Illinois alums dominated the scene at the AVMA's Inaugural and Awards Luncheon this summer. Dr. Richard Fink, a companion animal practitioner at the Washington Boulevard Animal Hospital in Whittier, California, became the first Illini to serve as AVMA President.

The AVMA presented eight awards that day and Illinois grads received three of them. Dr. C. Max Lang claimed the Charles River Prize, Dr. Jean E. Sessions the Practitioner Research Award, and Dr. Allen D. Leman the American Feed Industry Association Award.

Here's the AVMA description of Illini awardees:

DR. RICHARD B. FINK, a native of Peoria, Illinois, received his veterinary medical degree in 1952 from the College of Veterinary Medicine at the University of Illinois.

He practiced briefly in the North Hollywood-Van Nuys area of California after graduation. In December 1952, he established the Washington Boulevard Animal Hospital in Whittier. The hospital has seven veterinarians on its staff and is a hospital member of the American Animal Hospital Association.

Throughout his career, Dr. Fink has been active in organized veterinary medicine. He has held every major office in the Southern California Veterinary Medical Association, including a term as president in 1966-67. Dr. Fink was president of the California Veterinary Medical Association (CVMA) in 1977-79 and served five years as a member of the CVMA Executive Committee. He also chaired the CVMA Insurance Trust in 1978 and the Legislative Committee in 1979. He is currently a member of the CVMA Legislative Committee and chairman of the Political Action Committee. In 1982, he was given the District V Outstanding Service Award from the American Animal Hospital Association. Dr. Fink was the first president of the Animal Health Foundation in 1969 and continues to serve as a trustee on the Foundation Board.

Nationally, Dr. Fink began his involvement in AVMA affairs when he served in 1976 as California's alternate delegate in the AVMA House of Delegates. He was subsequently elected in 1979 by AVMA members in District X (Arizona, California, Hawaii, and Nevada) to a six-year term on the AVMA Executive Board. He served the board as chairman in 1983-84 and chaired Executive Board committees concerned with allied group representation in the House of Delegates, the group insurance trusts, and veterinary manpower. He was vice-president of the AVMA Foundation in 1980-85.

He is a charter member of the Whittier Sertoma Club, a 25-year member of the Knights of Columbus, and active in the Whittier Chamber of Commerce and the Boys Club. Dr. Fink and his wife, Yvonne, reside in Hacienda Heights. They have four children and eight grandchildren.

affecting livestock or poultry production.

DR. ALLEN D. LEMAN is a professor of Large Animal Clinical Medicine and an Extension Swine Health Specialist at the College of Veterinary Medicine at the University of Minnesota. Dr. Leman earned his veterinary medical degree from the University of Illinois in 1968, where he also received his masters' degree and a doctorate in reproductive physiology. From 1969-1975, Dr. Leman was an instructor of Veterinary Pathology and an Extension Veterinarian at the University of Illinois. During this time, Dr. Leman conducted extensive research on swine reproductive efficiency. In 1975, Dr. Leman joined the University of Minnesota as an associate professor and was made a full professor in 1979. His interest in the research of seasonal fertility and infertility in swine, viral reproductive failure, and a variety of related topics continued at the University of Minnesota. In addition to research and teaching, Dr. Leman has served on a variety of academic, review, and editorial committees and is a major advisor to graduate students. In 1979, Dr. Leman helped secure a \$100,000 yearly appropriation for increased swine disease research at the Large Animal Clinical Sciences Department. As a result, two new senior positions were created in swine medicine. His interest in international understanding and exchange of information has taken Dr. Leman to 29 international seminars and foreign veterinary meetings. Dr. Leman was a member of the USA Veterinary Medicine and Animal Science Delegation to the People's Republic of China in 1980. He also participated in the USDA Secretary of Agriculture's Scientific Exchange with the People's Republic of China in 1982. Dr. Leman has authored or co-authored more than 39 articles for journal publications, five book chapters, and edited four textbooks on swine health. Dr. Leman has held leadership positions for several of the nine professional societies of which he is a member. Dr. Leman is a past president, president-elect, editor, and member of the program committee for the American Association of Swine Practitioners. Among his many honors and distinctions are the Pfizer Leadership Award, Howard Dunne Lecturer, Howard Dunne Memorial Award, and AASP awards.

10th Charles River Prize

... in recognition of distinguished contributions to the field of laboratory animal science.

DR. C. MAX LANG is the George T. Harrell, Jr., Professor and Chairman, Department of Comparative Medicine; Assistant Dean for Continuing Education, College of Medicine at The Pennsylvania State University's Milton S. Hershey Medical Center. Dr. Lang received his veterinary degree from the University of Illinois in 1961, following which he served for two years with U.S. Army Veterinary Corps at Walter Reed Army Institute of Research. He completed a research fellowship in Laboratory Animal Medicine at Bowman Gray School of Medicine, after which he accepted a position on the faculty of the Milton S. Hershey Medical Center. Since 1981, Dr. Lang has served as Secretary-Treasurer of the

American College of Laboratory Animal Medicine. Dr. Lang has served on a number of committees and advisory bodies addressing a wide variety of laboratory animal care and use questions. In addition to his teaching and administrative work, Dr. Lang is also a productive investigator. He is the author, or coauthor, of more than 100 scientific publications in peer-reviewed journals. Dr. Lang has, on two occasions, been awarded the Research Award of the American Association of Laboratory Animal Science. Dr. Lang is a respected teacher, recognized authority on laboratory animal care and use, and published award winning investigator. In addition to his career accomplishments, Dr. Lang has been active in organized veterinary medicine throughout his professional life.

Practitioner Research Award

... in recognition of outstanding accomplishments in veterinary medical research by a practicing veterinarian.

DR. JEAN E. SESSIONS, a small animal practitioner, researcher, and author, has distinguished herself as an outstanding investigator based on her role in the discovery of the etiological agent of Potomac Horse Fever (Equine Monocytic Ehrlichiosis). Her field experience, information, and suggestions were crucial in proving the causal relationship of the ehrlichial agent, *E. risticii*, in clinical cases of Potomac Horse Fever. Subsequently, a serological test was developed to aid in diagnosis of Potomac Horse Fever. Dr. Sessions received her veterinary medical degree from the University of Illinois in 1970. After graduation, Dr. Sessions was the first woman commissioned into the Army Veterinary Corps. She had a research position at Walter Reed Army Institute of Research, Forest Glen Annex, Maryland. In 1972, Dr. Sessions was employed as a small animal practitioner. Her investigation of the theory that an Ehrlichial organism caused Potomac Horse Fever began after she examined a dog ill with canine Ehrlichiosis in 1983. Dr. Sessions has authored several research articles detailing her research and findings on Potomac Horse Fever. Dr. Sessions was honored as the Maryland Veterinarian of the Year by the Maryland Veterinary Medical Association in 1984. Other honors include: the Potomac Rotary Club's "Good Citizen's Award"; "1985 Public Service Award" by The Frederick Post, presented at the Montgomery County Press Association's Annual Meeting; National chairman for the Morris Animal Foundation's Potomac Horse Fever's Ride for Research fundraiser. Dr. Sessions is the Potomac Horse Fever Information and Education Director for the Morris Animal Foundation. Dr. Sessions presently operates her own small animal clinic in Potomac, Maryland. She continues to raise funds for Potomac Horse Fever research, as well as collect and study serological information regarding possible reservoir hosts and the varied clinical aspects and complications attributable to Potomac Horse Fever. She is conducting the field testing for the new plate latex agglutination diagnostic test, as well as the new Potomac Horse Fever vaccine in the state of Maryland.

American Feed Industry Association Award

... for contributions in research on nutrition or disease

ALUMNI REUNIONS



Celebrating their 35th class reunion on the Alumni Cruise at the AVMA are these members of the class of 1952. Front row from left are Drs. George Scott, West Chester, PA; Oliver Stowe, Greenville; Richard Fink, Hacienda Heights, CA; Ken Campbell, Evansville, WIS; and Robert Whalen, LaSalle. Back row from left are Drs. Earl Lutz, Bloomington; William Specht, Milledgeville; Cliff Loomis, Ottawa; Goerge Fehrenbacher, Wyoming; and Robert Latham, Erie. Their wives as well as the wives of deceased class members Paul Hendren and Harold Patterson were also on hand.



Members of the class of 1957 held their 30th reunion July 26 at Dr. and Mrs. Ben Allen's home in Galesburg. Dr. Small has described the event as one of the highlights of Galesburg's year-long sesquicentennial celebration. Pictured in the front row from the left are: Drs. Gale Taylor, Urbana; James Meyer, Gibson City; Arnie Taft, Springfield; and Gene Nelson, Morton. Second row from left are: Drs. Richard Coster, Sherrard; Erwin Small, Champaign; Ralph Vinson, Oneida; John Gerdes, Springfield, MO; and Paul Arndt, Lombard. Back row from left are: Drs. D.L. Ohaver, Farmington; Ben Allen, Galesburg; Peter Smith, Bloomington; John Aves, Belvidere; and Dave Mumme, Yardley, PA.



Members of the class of 1960 traveled to Lake of Egypt August 2 to hold a class reunion. Pictured in the front row from left are: Drs. Ray Matthews, East Alton; Nelly Lee, West Chicago; and Harold James, Anna. In the back row from left are: Drs. David Rash, Geneseo; Byford Wood, Breese; Ray Husmann, Breese; Kermit Frailey, Chrisman; and Erwin Small, 1957, alumni executive secretary. Dr. James, who hosted along with his wife and provided the photo, reported that although the group was small, the quality was superb.

Alumni Notes

Dr. LeRoy E. Neitzel, 1968, of Champaign was named the 1987 Illinois State Winner of the Bustad Companion Animal Veterinarian Award. Dr. Neitzel, operator of the Heritage Veterinary Hospital in Urbana, has served the Champaign County Humane Society as president of their board during their drive to build a new shelter. He has been actively involved in the Society's Pet-a-Pet program, which supervises pet visitation to nursing home residents. He also carries a special attitude about pets to other organizations he supports, including the Boy Scouts of America and 4-H.

Dr. Gary Koehler, 1978, of Wadsworth was featured this summer in the Waukegan News Sun. The article reported on his job as veterinarian for Tempel Smith Farms in north central Lake County. Tempel Farms is home to 153 Lippizans, the largest herd of its kind outside of Austria.

Dr. Richard M. DeBowes, 1979, won the 1987 Norden Distinguished Teacher Award at Kansas State University College of Veterinary Medicine this year. Dr. DeBowes is equine section chief in the Department of Medicine and Surgery at KSU and a diplomate of the American College of Veterinary Surgeons.

Dr. Fred Drazner, 1972, of Des Plaines is chief of staff for his own referral practice. A diplomate of ACVIM, he recently edited a book on Small Animal Endocrinology.

Col. David L. Huxsoll, 1961, was featured in the September DVM Newsmagazine. Dr. Huxsoll is the first veterinarian to head the U.S. Army Medical Research Institute of Infectious Diseases. The stated mission of the research and reference institute is "the development of strategies, products, information, procedures, and training for medical defense against agents of biological origin and naturally occurring infectious diseases of military importance that require special containment." Named to the USAMRIID position in 1983, Dr. Huxsoll oversees a staff of about 600 people.

Dr. Ronnie G. Elmore, 1972, was chosen president-elect of the Society for Theriogenology at their annual meeting in Austin, Texas, this fall. Dr. Elmore is professor and head of theriogenology at Texas A&M. He has been a theriogenology diplomate since 1977.

Dr. Clarence Rawlings, 1967, of Athens, Georgia, was recently named to a three-year term on the Morris Animal Foundation's six-member Scientific Advisory Board. Dr. Rawlings is professor and chief of staff of Small Animal Surgery at the University of Georgia College of Veterinary Medicine.

Dr. George C. Scott, 1952, of West Chester, Penn., was chosen president-elect of the American Academy of Veterinary Nutrition at the AVMA Meeting this summer. Dr. Scott is with Smith Kline.

IN MEMORIAM

Dr. John Graffey, 1953, died in January of 1987. He had retired in Arkansas after practicing in Herscher, Illinois.

Dr. W. Morgan Newton, 1952, died August 2, 1987, in Columbia, South Carolina. Following service with the U.S. Navy during World War II, Dr. Newton attended the University of Illinois where he earned his DVM degree in 1952. He was engaged in private veterinary practice at Alpha until 1961 when he returned to the University of Illinois and received a PhD degree in 1965. Dr. Newton remained at the University of Illinois as a member of the veterinary faculty until 1979. He became the director of laboratory animal resources for the University of South Carolina School of Medicine in 1979. He also served as veterinary medical specialist at the William Jennings Bryan Dorn Veterans Administration Medical Center at Columbia until his retirement in 1984. Memorials may be made to the University of Illinois Achievement Fund at the College of Veterinary Medicine, the W. Morgan Newton Scholarship Fund at the University of South Carolina School of Medicine, the Methodist Church of Urbana, the Bethel United Methodist Church of Columbia, the Boy Scouts of America, or an organization of the donor's choice.

Dr. Philip E. Voss, 1973, passed away October 14, 1987. He had practiced in Chicago since graduation.

College Briefs

Dr. Alan J. Parker, veterinary clinical medicine, was on sabbatical at the Australian National University, Canberra, Australia, in June and July, 1987. He worked with the university's Developmental Neurobiology Group, studying the development of the peripheral nervous system in pouched young wallabies. During his stay, he was appointed a Visiting Fellow of the Australian National University. Dr. Parker also stopped at the University of London in London, Great Britain, where he provided the lecture portion of a tape program on hydrocephalus being produced by himself and the Royal Veterinary College continuing education group.

Dr. William C. Wagner, veterinary biosciences, has been selected as program manager of the United States Department of Agriculture Animal Science Program's Competitive Research Grants Office for fiscal year 1988 in the subject area of reproductive biology. As program manager, Dr. Wagner will select members of a peer panel for review and evaluation of proposals submitted for funding from the Animal Science Program. Once a panel has been selected, he will assign proposals for ad hoc and peer panel evaluation; serve as chair of the panel, when it convenes, to evaluate the proposals; provide recommendations and justification for proposals to be funded; and ensure fair and equitable evaluation of all proposals submitted to this program.

Dean R. E. Dierks has been selected to the Advisory Committee of the Pew Charitable Trusts' National Veterinary Education Program. His appointment coincides with the trust's recent decision to target veterinary medicine with \$5.5 million dollars over the next four years to enhance veterinary educational programs in the United States. The Pew Charitable Trusts is a national program made up of seven collective trusts that directs funds into specific areas. In the past, programs have been focused on other health professions, including dentistry and nutritional sciences.

Dean Dierks, as part of their advisory committee, will help the organization outline overall goals and directions for the program, and design a set of activities to be undertaken as part of this initiative. To date, a four-phase program for veterinary education is recommended. Initially, the state of veterinary medicine education in the United States will be reviewed. Subsequently, the committee will help plan and implement innovative institutional programs which will take into consideration the dynamic environmental changes affecting the profession. The funding program is competitive, which will provide added incentive for veterinary institutions to develop dynamic programs designed to enhance veterinary education in the United States.

Dr. Erwin Small, veterinary clinical medicine and associate dean of alumni and public affairs, attended the Society for International Veterinary Symposia (SIVS) at the Beijing (Peking) Agricultural University from October 14-November 1. Dr. Small is executive secretary of the SIVS and has been working with Dr. Yu Chuan, secretary of the Chinese Veterinary Medical Association, on meeting arrangements. During his trip, Dr. Small delivered several papers to veterinarians in Japan, South Korea and Hong Kong as well as the People's Republic of China. The papers featured discussion of hemotropic diseases in animals.

Dr. John Shaddock, head of veterinary pathology, is on sabbatical at the New England Primate Research Center from August 1 through March 1, 1988. During his sabbatical leave, he is conducting research on encephalitozoonosis in squirrel monkeys. **Dr. Ken Todd** is acting head of pathobiology during Dr. Shaddock's absence.

Two clinicians from the University of Illinois College of Veterinary Medicine spoke at the Society for Theriogenology's Annual Fall Conference, September 16-18, at Austin, Texas. **Dr. Randall S. Ott**, veterinary clinical medicine, presented two papers on "Scrotal Circumference: How Small is too Small" and "Current Thinking on Breeding Soundness: Examination of Beef Bulls." Also presenting a paper was **Dr. Lynn Wheaton**, veterinary clinical medicine, who spoke on "Canine Uterine Motility."

Dr. Dean Scoggins, veterinary extension and continuing education, has been named to the first Editorial Advisory Board for the publication *Large Animal Veterinarian*.

Dr. Deoki Tripathy, veterinary pathobiology, recently returned from a six-month sabbatical leave at the University of Lausanne in Switzerland. During his sabbatical, Dr. Tripathy worked on molecular biology

of fowlpox virus, especially gene cloning, sequencing and regulation. His work is directed towards developing recombinant vaccines for poultry using fowlpox virus as a cloning vector for genes from poultry pathogens. While in Lausanne, Dr. Tripathy worked in Professor R. Wittek's laboratory in the University of Lausanne's Department of Animal Biology. Dr. Wittek's specialty is molecular biology of pox viruses, especially vaccinia virus.

On a side trip to Germany, Dr. Tripathy visited the University of Heidelberg where he talked to Professor G. Darai of the Institute of Medical Virology and his students about their current molecular work on pox viruses and herpes viruses.

In addition, the Hoffman-La Roche Corporation, Basel, Switzerland, invited Dr. Tripathy to present a lecture during his sabbatical on important poultry diseases. Dr. Tripathy also visited the World Health Organization (WHO) in Geneva and met with Dr. K. Bogel, head of WHO's veterinary public health department, to discuss various aspects of leptospirosis, a zoonotic disease, another area of Dr. Tripathy's interest.

Dr. Douglas MacCoy, veterinary clinical medicine, spoke to registrants at the First International Conference on Zoological and Avian Medicine, September 6-11 at Oahu, Hawaii. He presented a paper titled "Healing of Humeral Fractures in Pigeons Treated with Ethylene Oxide Sterilized, Dry Stored, Cortical Xenographs and Allographs." Dr. MacCoy also taught a wet lab on avian fracture repair. The conference was jointly sponsored by the Association of Avian Veterinarians and the American Association of Zoo Veterinarians.

Dean R. E. Dierks was recently selected by the American Veterinary Medical Association (AVMA) to be one of a three-member Manpower Overview Committee. The committee will continue to review the economic, educational and employment status of the veterinary profession. Marketing reports and other pertinent information will be provided to the committee by the various AVMA councils. The committee will make recommendations to the AVMA Executive Board on programs that can enhance the development of the veterinary profession into new, beneficial areas.

Dr. William C. Wagner, veterinary biosciences, delivered a paper authored by himself, **Dr. Gregg BeVier** and **Dean R. E. Dierks** on "Training in Food Animal Management: Implications for Veterinary Curricula" during the Education Section of the World Veterinary Congress, August 18th in Montreal, Canada. The paper discussed the innovative Integrated Food Animal Management System (IFAMS) food animal training program initiated by the University of Illinois College of Veterinary Medicine this summer.

Dr. William B. Buck, biosciences, presented a paper on "Protecting Pets from Hazards in the Home Environment" for the National Institutes of Health Technology Assessment Workshop on the Health Benefits of Pets in Washington, D.C. September 10-11.

Dr. M. E. Tumbleson, associate dean for research, chaired a half-day seminar on miniature swine and biomedical research at the annual American Association for Laboratory Animal Science meeting in Denver, Colorado, on November 9. He also presented a paper entitled "Sinclair Miniature Swine for Research" during the seminar.

Dr. William C. Wagner, head of veterinary biosciences, was elected vice-president of the Conference of Research Workers in Animal Diseases' Council during the organization's 68th annual meeting held in Chicago on November 16-17. Dr. Wagner has served as a member of the council for the past four years. The Conference of Research Workers in Animal Diseases was organized in 1920 to provide an opportunity for persons actively engaged in research on animal diseases to share controversial or innovative ideas. Since its inception, the organization has grown from 13 members to more than 700.

Dr. Howard L. Whitmore, veterinary clinical medicine and chief of the food animal section, was recently elected president of the American College of Theriogenologists (ACT), an organization of veterinarians who have completed board certification in theriogenology (animal reproduction). Dr. Whitmore was installed as president at a joint meeting of ACT and the Society for Theriogenology in Austin, Texas, on September 16-18. The ACT is committed to increasing competence and research in theriogenology and has developed procedures for evaluating and certifying qualified candidates. **Dr. Ted Lock**, veterinary clinical medicine, is the organization's secretary. He is serving a three-year term in that role and was elected last year.

Dr. Joseph DiPietro, veterinary clinical medicine, presented a paper entitled "Evaluation of the Activity of Ivermectin Against *Parascaris equorum*" at the 12th conference of the World Association for the Advancement of Veterinary Parasitology. The conference was held on August 13 in Montreal, Canada.

Dr. LeRoy G. Biehl, veterinary continuing education-public service, was chosen president-elect of the American Association of Extension Veterinarians (AAEV) during the group's annual meeting held in conjunction with the American Veterinary Medical Association's annual meeting in July. Dr. Biehl will assume the presidency of the AAEV in 1988. As president-elect, his duties include setting up and overseeing the AAEV program for next year's AVMA Convention.

Dr. Gerald McLaughlin, veterinary pathobiology, presented an invited paper on "Use of Enzyme-Linked Synthetic DNA in the Diagnosis of *Falciparum Malaria*" during the World Health Organization's Malaria Action Program in Geneva, Switzerland, October 5-8. Dr. McLaughlin also participated in workshops during the program and remained in Switzerland afterwards to hold informal consultations on malaria diagnosis. His area of special interest is parasitology.

Dr. William C. Wagner, head of veterinary biosciences, chaired a session of the Bovine Somatotropin Symposium in Braunschweig, West Germany, on November 3-4. Dr. Wagner was asked to chair the opening session on Biotechnology for Animal Agriculture and Human Medicine. The symposium, which was sponsored by the German government, was intended to develop an informed group of decision makers in Germany who will be knowledgeable about the use of biotechnological advances. German regulatory personnel, researchers, animal producers and others involved in agricultural biotechnology were in attendance. Dr. Wagner also visited with Professor B. Hoffmann at the veterinary school at Justus-Liebig Universitat, Giessen, W. Germany, and with Professor Franz Ellendorff at the Institut fur Tierzucht, Mariensee, W. Germany. Dr. Wagner is collaborating with both individuals on research and discussed their research as well as manuscript preparation.

Dr. William J. Tranquilli, veterinary clinical medicine, presented a paper entitled "Alterations in the Arrhythmic Dose of Epinephrine in Ponies and Dogs During Halothane Anesthesia With and Without Anesthetic Adjuncts" at the 23rd World Veterinary Congress, Montreal, Canada, August 16-21.

Dr. Miodrag Ristic, veterinary pathobiology, and his malaria team attended the Third International Conference on Malaria and Babesiosis in Annecy, France, between September 5-12, 1987. Dr. Ristic's staff, including **Dr. Cynthia Holland**, **Dr. Mark James**, **Dr. Ibulaimu Kakoma**, **Dr. Sonia Montenegro-James** and **Carol Fajfar-Whetstone** all work with blood-borne diseases which include malaria and babesiosis. After the conference, Dr. Ristic continued to Belgrade, Yugoslavia, where he visited their School of Veterinary Medicine to discuss problems regarding babesiosis in that area.

Dr. Gerald J. Pijanowski, veterinary biosciences, was recently appointed chairman of the American Society of Biomechanics' Education Committee. The appointment was announced during the society's eleventh annual meeting September 16-18 at the University of California, Davis. Dr. Pijanowski will serve a 2-year term. As chairman of the Education Committee, Dr. Pijanowski will develop the society's educational program. His position also makes him part of the society's executive committee.

The American Society of Biomechanics has members from all across the country in disciplines that include biology, engineering, medicine, ergonomics (how humans interact with their work environment), and sports medicine. The group's purpose is to foster discussion among these various disciplines, ultimately providing everyone with an expanded view of biomechanics. Next year, Dr. Pijanowski and Dr. Manssour Moenizadeh, assistant professor of general engineering at the University of Illinois, will make local arrangements for the society's 12th annual meeting which will be held at the University of Illinois at Urbana-Champaign. The meeting is scheduled for September 28-30, 1988.

Six faculty members received promotions this year. Promoted to professor were **Dr. G. John Benson**, clinical medicine; **Dr. James E. Hixon**, biosciences; and **Dr. Murli Manohar**, biosciences. New associate professors are **Dr. Ann L. Johnson**, clinical medicine; **Dr. Donald R. Krawiec**, clinical medicine; and **Dr. Allan J. Paul**, veterinary continuing education and public service.